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Pollstar - test plan

Project; Pollstar

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## Revisions

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Description | Author | Date |
| 0.1 | Setup; created Layout  Started User Story Acceptance Tests | Teun Visser; 4422651 | 11/03 |
| 0.2 | Created User Story Acceptance Tests | Teun Visser; 4422651 | 11/04 |
| 1.0 |  | Teun Visser; 4422651 |  |

## Test Strategy

In Pollstar there are several programs running together to create one application:

* The front end, which consists of Javascript, html and CSS.
* The Back-end, constructed in Java, but is reliant on other libraries.
* The Data storage, it is very unlikely to be problems in the data storage itself, because I’m just using an existing application, but the connection from and towards it going to be made by me, a human. So it’s only fair to assume problems could arise.

These are the 3 main components in Pollstar, but all together must also be tested, the plan for every component is listed down below;

## Front end Testing; Cypress

The plan for front end testing will be set up in Cypress, this gives an easy way for testing the application functionality, as it is easy to set up and run.

## Back end Testing; Unit Tests (Java)

Loose components will be tested in the backend using unit tests;

In these tests will be trying to reach ~80% code coverage, simple lines in the code wont be tested because it will become more trouble then it is worth, to create and maintain.

Instead, more complex and intricate methods will be tested more in depth and extensively, this will ensure the more difficult bugs to be come forward.

To ensure bug free code on simpler methods SonarQube will do provide an overview for code quality, small errors in simple code will be pointed out from there, which will not give a 100% bug free insurance, but good enough for the scope of this project.

## System Tests; Acceptance Test

To make sure the application has all the functions intended, the whole system will be tested using the under mentioned acceptance tests, these will be one of the last tests and is prone to change, but when these tests all succeed, we can say the application has been created and finished!

(Refer to Requirements for full description and acceptance Criteria)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| USnr. | TCnr. | Description | Prerequisites | Input | Expected (success) results | Pass? |
|  |  | Poll Creation | User is Signed in  User is in Poll creation screen | Poll name: Test Poll  Option 1: Test Option 1  Option 2 : Test Option 2  Select “Create” | System created a poll  System delivers Link to poll |  |
|  |  | Get poll results | User is Signed in  User Has Created a Poll | Open Poll | The Poll is loaded  The options combined with the amount of votes is displayed |  |
|  |  | Vote on Poll | user has opened a poll  0 Votes have been cast on Poll | Select “Vote” next to Option 1 of the opened Poll | System redirects user to results screen  Option 1 has 1 vote as is winning with 100% of casted votes |  |
|  |  | View all owned (created) polls | User is Signed in  User has created 3 polls | Open account details  Select “My Polls” | System provides list of the 3 poll that are bound to user’s account |  |
|  |  | Sort all owned polls on Creation Date | User is Signed in  User has Created 3 polls | Open “Account details”  Select “My Polls”  Select “Filter by Creation Date” | System provides list of the 3 poll that are bound to user’s account  List is sorted with newest created poll on top |  |
|  |  | Sort all owned polls on amount of Votes | User is Signed in  User has Created 3 polls  All polls have a different amount of votes cast on its options | Open “Account details”  Select “My Polls”  Select “Filter by Amount of Votes” | System provides list of the 3 poll that are bound to user’s account  List is sorted with the most voted on poll on Top |  |
|  |  | The amount of votes on a poll, updates automatically | 2 Users:  User 1 is on Poll Results section  User 2 opened the same poll as User 1, and is in voting screen  0 votes have been cast on Poll | User 2; Follows [vote on poll] TC  user 1 Observes results section | User 1 observers that option 1 increases from 0 to 1 as soon as User 2 completes his case. |  |
|  |  | A user can vote immediately without signup/ reCAPTCHA | User is not signed in  User has Link for a Poll  User has not voted on given Poll | User opens link for poll | System loads poll and displays it to user, ready to vote. |  |
|  |  | Anyone can only vote once (1) | User is not Signed in | Open Poll  Vote for option 1  Re-open Poll | System shows votable poll to user  System adds 1 vote to option 1  System redirects user to results screen |  |
|  |  | User that has voted can change his vote on a poll | User has voted on a poll  User has results screen from poll open  Poll has 1 vote on option 1 (is 100%) | Select “Change Vote”  Select Option 2 | System removes 1 vote from option 1  System shows Poll voting screen  System adds 1 vote to option 2  System redirects user to results screen  Option 2 has 1 vote (100% of all votes) |  |
|  |  | Pollster can lock a poll so voters can’t add or change votes | User is Signed in  User owns a poll  User is on poll’s results screen | Select “Lock Poll”  Confirm | System asks for confirmation  System marks poll as Locked |  |
|  |  | Pollster can set lock on limit in poll creation screen | User is signed in  User is on Poll creation screen | Poll name: Test Poll  Option 1: Test Option 1  Option 2 : Test Option 2  Poll limit: Vote limit  Vote Limit: 1  Select “Create” | System created a poll that will lock when 1 vote has been cast to poll  System delivers Link to poll |  |
|  |  | Poll locks when limit is reached (vote limit) | User has link to poll with a vote limit of 1 | Cast vote on option 1 | System Adds 1 vote to option 1  System locks poll |  |
|  |  | Poll locks when limit is reached (time limit) | User has link to poll with a time limit that is in 5 minutes | Cast vote on option 1 | System Adds 1 vote to option 1  After 5 minutes;  System locks poll |  |
|  |  | Leave comment on poll | User is Signed in  User is on results screen | Select “leave comment”  Input: “Hello, World!”  Select “Post” | System adds comment to poll |  |
|  |  | Quick poll creation without hassle | User is Signed in | Select Create a Poll  Poll name: Test Poll  Option 1: Test Option 1  Option 2 : Test Option 2  Select “Create” | System Shows poll creation  Note that no extra input was needed |  |
|  |  | Pollster can manage comments on his own poll | User is signed in  User owns a poll  This poll has a comment  User is in that poll results screen | Select a comment  Select delete  Confim | System displays Comment.  After asking for user confirmation, the system removes the comment from the poll |  |
|  |  | User can create an account | User has no account  User is on home menu | Select “Sign up”  username; TestAccount  Email; [Test@Account.nl](mailto:Test@Account.nl)  Password; Test1234  Select “Submit” | System displays Sign up form  System Creates account |  |
|  |  | User can log into an existing account | user is not signed in  user Followed Create Account TC | Select Sign in  UserName; TestAccount  Password; “Test1234” | System displays Sign In Form  System confirms input  System logs user in |  |
|  |  | User can log out of an account | User is signed in | Select “Account details”  Select “Log out” | System shows User’s account details  System logs user out of current session |  |
|  |  | User can change his own account details | User is signed in | Select “Account Details”  Input:  new Email; [Test@Account2.nl](mailto:Test@Account2.nl)  new UserName; TestAccount2  new Password; Test12345  old Password; Test1234  select “confirm” | System shows user’s account details  System confirms user’s password  System updates user’s Username, Password and Email  System Logs user out |  |
|  |  | User that left a comment can edit it | User is signed in  User is on the results screen of an active poll  User left a comment on opened poll | Select a comment  Select edit  Input “Test; Edit 1”  Confim | The User’s comment is changed too; “Test; Edit 1” |  |
|  |  | User can Like other comments | User is Signed in  User is in results screen of a poll  Poll has has 1 comment from another user with 0 Likes | select like next to the comment | The 1 comment on the poll now has 1 like |  |
|  |  | User can Dislike comments | User is Signed in  User is in results screen of a poll  Poll has 1 comment with 0 likes | Select Dislike next to the comment | The 1 comment on the poll now has -1 Likes |  |
|  |  | Any User can view the Comments on a poll | User is in results screen of a poll  Opened poll has comments | Navigate to comments section | There is now a list displayed with a couple of the poll’s (most popular) comments |  |
|  |  | Comments sorting;  Likes descending | User is at comments section in results screen of a poll  Opened poll has comments | select Sort by: Likes | There is now a list displayed with a couple of the poll’s comments, with the most liked on top |  |
|  |  | Comments sorting;  Likes ascending | User is at comments section in results screen of a poll  Opened poll has comments | select Sort by: DisLikes | There is now a list displayed with a couple of the poll’s comments, with the most disliked on top |  |
|  |  | Comments sorting;  Time descending | User is at comments section in results screen of a poll  Opened poll has comments | select Sort by: Newest | There is now a list displayed with a couple of the poll’s comments, with the newest on Top |  |
|  |  | Comments sorting;  time ascending | User is at comments section in results screen of a poll  Opened poll has comments | select Sort by: Oldest | There is now a list displayed with a couple of the poll’s comments, with the Oldest on top |  |